

What is Claimed is:

1 1. A data transfer system used in a system for
2 transferring a plurality of packets in a serial manner,
3 comprising:

4 a packet creating section for collecting said plurality
5 of packets transferred in said serial manner to create a
6 transfer packet;

7 a cell sending section for converting said transfer
8 packets created by said packet creating section into a cell able
9 to be sent onto a predetermined communication network and then
10 sending said cell onto said predetermined communication
11 network;

12 a packet reconfiguring section for receiving said cell
13 from said predetermined communication network and then
14 reconfiguring a packet having same contents as said transfer
15 packet created by said packet creating section; and

16 a packet dividing/transferring section for dividing
17 said transfer packet reconfigured by said packet reconfiguring
18 section and then transferring in the serial manner.

1 2. The data transfer system according to claim 1,
2 wherein said packet creating section collects said plurality
3 of packets transferred in the serial manner every first time
4 lapse.

1 3. The data transfer system according to claim 1,
2 wherein said packet creating section includes, in said packet,
3 information of time when said plurality of packets are sent.

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1 9. The data transfer system according to claim 1,
2 wherein each of a transmission source and a transmission
3 destination which are connected to said predetermined
4 communication network is a terminal connected to one serial bus.

1 14. A data transfer system used in a system for
2 transferring a plurality of packets in a serial manner,
3 comprising:

1 17. The data transfer system according to claim 14,
2 wherein said packet dividing/transferring program transfers
3 said divided packet in said serial manner based on said time
4 information.

23. The data transfer system according to claim 14,
wherein said predetermined communication network is configured
from a plurality of virtual channels and wherein a predetermined
channel of said plurality of virtual channels is specified to
each packet transferred to said packet creating program.

4 collecting, as a first step, said plurality of packets
5 transferred in the serial manner in an order said plurality of
6 packets are to be transmitted, to create a transfer packet;
7 converting, as a second step, said transfer packet created by
8 said first step into a cell able to be sent to a predetermined
9 communication network and then sending said cell to said
10 predetermined communication network;

15 dividing, as a fourth step, said transfer packet
16 reconfigured by said third step and transferring said transfer
17 packet in the serial manner.)

28. The data transfer method according to claim 27,
wherein said first step collects said plurality of packets
transferred in the serial manner, every a first time lapse.

1 29. The data transfer method according to claim 27,
2 wherein said first step includes information of time when said
3 plurality of packets were sent, in said packet.

1 30. The data transfer method according to claim 27,
2 wherein said fourth step transfers said divided packet in the
3 serial manner based on said time information.

31. The data transfer method according to claim 30,
wherein said fourth step decides a cycle during which said
divided packet is to be transmitted, based on said time
information.

1 32. The data transfer method according to claim 27,
2 wherein a packet transferred at said first step is an
3 isochronous packet in accordance with IEEE1394 Standards.

1 38. The data transfer method according to claim 37,
2 wherein said fourth step transfers said divided packet based
3 on said predetermined channel information.

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1. The first part of the paper is devoted to a review of the literature on the topic. It starts with a general overview of the field, followed by a more detailed discussion of the specific issues at hand. The author then presents his own findings, which are based on a series of experiments. These findings are then compared with the results of previous studies, and the author discusses the implications of his work. Finally, the paper concludes with a summary of the main points and some suggestions for future research.